

DERWENT-ACC-NO: 1998-100739

DERWENT-WEEK: 200274

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TITLE: Moulded objects having a modified surface - made  
by coating a mould with a plasticiser and optionally  
modifying agents, introducing a thermoplastic  
resin, and heating the mould to the gelling temperature of  
the resin

INVENTOR: BRIOUDE, M; SAKKAS, D

PATENT-ASSIGNEE: ELF ATOCHEM SA[AQOR] , ATOFINA[AQOR]

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	
PAGES MAIN-IPC			
DE 69715206 E	October 10, 2002	N/A	000
B29C 041/22			
WO 9800277 A1	January 8, 1998	<del>EF</del>	017
B29C 041/22			
FR 2750639 A1	January 9, 1998	N/A	010
B29C 041/22			
EP 912312 A1	May 6, 1999	F	000
B29C 041/22			
CN 1223610 A	July 21, 1999	N/A	000
B29C 041/22			
JP 2000513285 W	October 10, 2000	N/A	015
B29C 041/22			
EP 912312 B1	September 4, 2002	F	000
B29C 041/22			

DESIGNATED-STATES: CA CN JP KR US AT BE CH DE DK ES FI FR GB GR IE IT  
LU MC NL  
PT SE BE DE ES FR GB IT NL BE DE ES FR GB IT NL

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	
APPL-DATE			
DE 69715206E	N/A	1997DE-0615206	
June 26, 1997			
DE 69715206E	N/A	1997EP-0930601	
June 26, 1997			
DE 69715206E	N/A	1997WO-FR01148	
June 26, 1997			
DE 69715206E	Based on	EP 912312	N/A
DE 69715206E	Based on	WO 9800277	N/A

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WO 9800277A1	N/A	1997WO-FR01148	
June 26, 1997			
FR 2750639A1	N/A	1996FR-0008225	
July 2, 1996			
EP 912312A1	N/A	1997EP-0930601	
June 26, 1997			
EP 912312A1	N/A	1997WO-FR01148	
June 26, 1997			
EP 912312A1	Based on	WO 9800277	N/A
CN 1223610A	N/A	1997CN-0195981	
June 26, 1997			
JP2000513285W	N/A	1997WO-FR01148	
June 26, 1997			
JP2000513285W	N/A	1998JP-0503878	
June 26, 1997			
JP2000513285W	Based on	WO 9800277	N/A
EP 912312B1	N/A	1997EP-0930601	
June 26, 1997			
EP 912312B1	N/A	1997WO-FR01148	
June 26, 1997			
EP 912312B1	Based on	WO 9800277	N/A

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ABSTRACTED-PUB-NO: EP 912312B

#### BASIC-ABSTRACT:

Process for producing moulded articles with a modified surface comprises the steps of (i) depositing a composition A comprising at least one plasticiser (I) and optionally one or more modifying agents (II) onto the surface of a mould; (ii) subsequently depositing a composition B comprising a thermoplastic resin or a mixture of thermoplastic resins on the mould which has been partially or completely coated in (i); (iii) heating the mould, gradually at first and then rapidly, to the gelling temperature of the resin (mixture) and (iv) optionally redepositing composition (B) on the heated mould.

USE - The process is useful for moulding articles from PVC, chlorinated polyvinyl chloride (CPVC), vinyl chloride copolymers such as copolymers of vinyl chloride with vinyl acetate, polyvinylidene fluoride, polyamides such as polyamide-11 and polyamide-12, high density polyethylene (HDPE) and polymethylmethacrylate (PMMA), the moulded articles having a different composition on the modified surface than in the substrate. The moulded

products are useful e.g. in the automobile industry as dashboards, head rests, upholstery items, etc.

ADVANTAGE - The process allows production of moulded articles having a modified surface using conventional moulding techniques such as electrostatic powder spray deposition, roto-moulding and slush moulding, using a shorter production cycle than previously required for producing articles with a modified surface.

ABSTRACTED-PUB-NO: WO 9800277A

#### EQUIVALENT-ABSTRACTS:

Process for producing moulded articles with a modified surface comprises the steps of (i) depositing a composition A comprising at least one plasticiser (I) and optionally one or more modifying agents (II) onto the surface of a mould; (ii) subsequently depositing a composition B comprising a thermoplastic resin or a mixture of thermoplastic resins on the mould which has been partially or completely coated in (i); (iii) heating the mould, gradually at first and then rapidly, to the gelling temperature of the resin (mixture) and (iv) optionally redepositing composition (B) on the heated mould.

USE - The process is useful for moulding articles from PVC, chlorinated polyvinyl chloride (CPVC), vinyl chloride copolymers such as copolymers of vinyl chloride with vinyl acetate, polyvinylidene fluoride, polyamides such as polyamide-11 and polyamide-12, high density polyethylene (HDPE) and polymethylmethacrylate (PMMA), the moulded articles having a different composition on the modified surface than in the substrate. The moulded products are useful e.g. in the automobile industry as dashboards, head rests, upholstery items, etc.

ADVANTAGE - The process allows production of moulded articles having a modified surface using conventional moulding techniques such as electrostatic powder spray deposition, roto-moulding and slush moulding, using a shorter production cycle than previously required for producing articles with a modified surface.

TITLE-TERMS: MOULD OBJECT MODIFIED SURFACE MADE COATING MOULD PLASTICISED

OPTION MODIFIED AGENT INTRODUCING THERMOPLASTIC RESIN HEAT

MOULD

GEL TEMPERATURE RESIN

DERWENT-CLASS: A14 A17 A23 A32

CPI-CODES: A08-P01; A11-A02B; A11-B01; A11-C04B2;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018 ; R00338 G0544 G0022 D01 D12 D10 D51 D53 D58 D69 D82 C1 7A ;  
H0000 ; M9999 M2244 M2222 ; S9999 S1434 ; L9999 L2573 L2506 ; L9999  
L2551 L2506 ; L9999 L2517 L2506 ; P1796 P1809

Polymer Index [1.2]

018 ; ND07 ; K9745\*R ; Q9999 Q9234 Q9212 ; Q9999 Q9289 Q9212 ;  
K9905  
; Q9999 Q9325 ; N9999 N7090 N7034 N7023 ; B9999 B5414\*R B5403 B5276  
; K9676\*R ; K9483\*R ; N9999 N6440\*R ; N9999 N6531 N6440 ; N9999  
N6520 N6440 ; B9999 B5607 B5572

Polymer Index [1.3]

018 ; C1 7A ; H0157

Polymer Index [1.4]

018 ; G3123\*R D01 D19 D18 D63 D76 F41 F90 E00 E19 D11 D10 D31 D50  
D95 ; A999 A384 ; A999 A771

Polymer Index [1.5]

018 ; G3383\*R D01 D19 D18 D63 D76 F41 E30 E31 ; R05384 G3383 D01  
D11 D10 D19 D18 D31 D50 D63 D76 D95 F41 F91 E30 E31 ; A999 A384  
; A999 A771

Polymer Index [1.6]

018 ; A999 A102 A077

Polymer Index [1.7]

018 ; A999 A544 A486 ; K9869 K9847 K9790

Polymer Index [1.8]

018 ; A999 A260\*R

Polymer Index [1.9]

018 ; A999 A511 A486 ; A999 A771

Polymer Index [1.10]

018 ; G2255 G2222 D01 D23 D22 D42 D73 F47 ; A999 A340\*R

Polymer Index [2.1]

018 ; R00338 G0544 G0022 D01 D12 D10 D51 D53 D58 D69 D82 C1 7A ;  
S9999 S1434 ; H0317 ; H0022 H0011 ; H0033 H0011 ; P1796

Polymer Index [2.2]

018 ; H0022 H0011 ; R00338 G0544 G0022 D01 D12 D10 D51 D53 D58 D69  
D82 C1 7A ; R00835 G0566 G0022 D01 D11 D10 D12 D51 D53 D58 D63 D84  
F41 F89 ; S9999 S1434 ; H0317 ; P1796 ; P1832

Polymer Index [2.3]

018 ; R00363 G0555 G0022 D01 D12 D10 D51 D53 D58 D69 D82 F\* 7A ;  
H0000 ; S9999 S1434 ; H0317

Polymer Index [2.4]

018 ; P0635\*R F70 D01 ; S9999 S1434 ; H0317

Polymer Index [2.5]

018 ; P0668 P1934 P0635 F70 D01 D11 D10 D50 D91 ; S9999 S1434 ;  
H0317

Polymer Index [2.6]

018 ; P0679 P1934 P0635 F70 D01 D11 D10 D50 D92 ; S9999 S1434 ;  
H0317

Polymer Index [2.7]

018 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82 ;

H0000 ; P1194 P1161 ; S9999 S1434 ; H0317 ; P1150  
 Polymer Index [2.8]  
 018 ; R00479 G0384 G0339 G0260 G0022 D01 D11 D10 D12 D26 D51 D53  
 D58 D63 D85 F41 F89 ; H0000 ; S9999 S1434 ; H0317 ; P0088 ; P0113  
 Polymer Index [2.9]  
 018 ; G3123\*R D01 D19 D18 D63 D76 F41 F90 E00 E19 D11 D10 D31 D50  
 D95 ; A999 A384 ; A999 A771  
 Polymer Index [2.10]  
 018 ; G3383\*R D01 D19 D18 D63 D76 F41 E30 E31 ; R05384 G3383 D01  
 D11 D10 D19 D18 D31 D50 D63 D76 D95 F41 F91 E30 E31 ; A999 A384  
 ; A999 A771  
 Polymer Index [2.11]  
 018 ; A999 A102 A077  
 Polymer Index [2.12]  
 018 ; A999 A260\*R  
 Polymer Index [2.13]  
 018 ; A999 A544 A486 ; K9869 K9847 K9790  
 Polymer Index [2.14]  
 018 ; A999 A511 A486 ; A999 A771  
 Polymer Index [2.15]  
 018 ; G2255 G2222 D01 D23 D22 D42 D73 F47 ; A999 A340\*R

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